b) The Year 6 children eat \(\frac{3}{10}\) of their apples in the morning.

\[
\begin{align*}
\frac{1}{10}\text{ of } 80 &= 8 \\
\frac{3}{10}\text{ of } 80 &= 3 \times 8 = 24 \\
80 - 24 &= 56
\end{align*}
\]

The Year 6 children eat 56 apples in the afternoon.

Think together

\(\frac{5}{6}\) of this bag of flour is needed for a cake. How much flour is needed for the cake?

\[
\begin{align*}
\frac{1}{6}\text{ of } 300 \text{ g} &= 300 \div \square = \square \text{ g} \\
\frac{5}{6}\text{ of } 300 \text{ g} &= \square \times \square = \square \text{ g}
\end{align*}
\]

\(\square\) g of flour is needed.
2. There are 28 children in a Year 6 class. \( \frac{5}{7} \) of the children are going on a school trip.

How many children are not going on the trip?

\( \square \) children are not going on the trip.

I think I could complete this question without subtracting.

3. There are 36 children in a swimming lesson.

\( \frac{1}{3} \) of the children are boys. \( \frac{1}{2} \) of the boys wear goggles.

Mo and Richard are working out how many of the boys wear goggles.

I think 18 boys wear goggles, because \( \frac{1}{2} \) of 36 is 18.

I did 36 ÷ 3 = 12. I think 12 of the boys wear goggles.

Mo and Richard are both incorrect.
What mistakes have they made?
What is the correct answer?